Cropland Interpretations

Crop Yield

The average yields per acre of principal crops under a high level of management are presented in published soil surveys. In any given year, yields may be higher or lower than those indicated in these tables because of variations in rainfall and other climatic factors. The yields are based mainly on the experience and records of farmers, conservationists, and extension agents. Available yield data from nearby counties and results of field trials and demonstrations are also considered.

The management needed to obtain the indicated yields of the various crops depends on the kind of soil and the crop. Management can include drainage, erosion control, and protection from flooding; the proper planting and seeding rates; suitable high-yielding crop varieties; appropriate and timely tillage; control of weeds, plant diseases, and harmful insects; favorable soil reaction and optimum levels of nitrogen, phosphorus, potassium, and trace elements for each crop; effective use of crop residue, barnyard manure, or green manure crops; and harvesting that insures the smallest possible loss.

The estimated yields reflect the productive capacity of each soil for each of the principal crops. Yields are likely to increase as new production technology is developed. Absence of a yield indicates that the soil is not suited to the crop or the crop is generally not grown on the soil.

Productivity Index

The productivity index rating system provides an index for ranking all the soil mapping units in Missouri based upon their suitability to produce crops. An individual productivity index rating for a soil map unit reflects the integrated effects of numerous factors that influence the yield potential.

Many users consider the comparative yields between soils to be of more value than the actual yields because the index relationships are likely to remain constant over a period of years.

This subsection includes:

- (a) Land Capability and Yields per Acre of Crop and Pasture
- (b) Productivity of Missouri Soil (located in the county office)

Map symbol and soil name	Land capability	 Corn 	Grain sorghum	 Grass-legume hay	Smooth bromegrass	 Soybeans 	 Tall fescue 	 Winter wheat
		Bu	Bu	Tons	AUM	Bu	AUM	Bu
1B: Sibley	 2e 	 115.00	 95.00 	 5.00	10.00	 45.00 	8.00	48.00
1C: Sibley	 3e 	108.00	 85.00 	4.80	9.60	 39.00 	7.80	40.00
2C: Higginsville	3e	 108.00 	94.00	4.80	9.60	 41.00 	 7.80	 45.00
5C: Macksburg	3e	103.00	90.00	4.60	9.30	39.00	 7.70	43.00
6B: Sharpsburg	 2e	102.00	 88.00 	5.00	9.00	 43.00 	7.50	45.00
6C2: Sharpsburg	3e	90.00	 80.00 	4.80	8.80	 40.00	7.20	42.00
6D2: Sharpsburg	3e	 82.00	 70.00	3.70	7.40	 30.00 	6.60	34.00
8: Pits						 	 	
9D: Snead	 4e 	 55.00	 50.00	2.70	4.00	 21.00 	4.80	25.00
9E: Snead	6e	 	 	2.10	3.60	 	4.20	

Map symbol and soil name	Land capability	Corn	Grain sorghum	 Grass-legume hay	Smooth bromegrass	Soybeans	 Tall fescue 	 Winter wheat
		Bu	Bu	Tons	AUM	Bu	AUM	Bu
10D: Snead	6s			2.10	2.50		3.80	
Rock Outcrop					2.50		3.80	
10F: Snead Rock Outcrop	7s 			 	2.50		 3.80 3.80	
	 		 		2.50		3.80	
11C2: Greenton	3e	77.00	65.00	3.40	6.80	28.00	6.00	31.00
11C3: Greenton	4e			3.00	4.50		5.00	26.00
11D3: Greenton	6e			2.70	4.00		4.60	
13B: Sampsel	2e	86.00	74.00	3.70	7.60	33.00	6.80	35.00
13C: Sampsel	3e	79.00	66.00	3.50	7.00	30.00	6.50	30.00
24B: Lagonda	2e	90.00	83.00	3.30	8.40	34.00	7.30	38.00
25C2: Lagonda	3e	76.00	65.00	2.90	6.60	28.00	6.20	34.00

Map symbol and soil name	Land capability	 Corn 	Grain sorghum	 Grass-legume hay	Smooth bromegrass	Soybeans	 Tall fescue 	 Winter wheat
		Bu	Bu	Tons	AUM	Bu	AUM	Bu
25D2: Lagonda	 6e	 		2.10	4.60		4.40	
26B: Ladoga	2e	92.00	76.00	4.10	8.20	35.00	5.80	39.00
26C2: Ladoga	3e	80.00	68.00	3.80	7.20	30.00	5.70	33.00
26D2: Ladoga	3e	70.00	58.00	3.20	7.20	26.00	6.80	28.00
27D3: Ladoga	 4e	62.00	54.00	3.00	5.50	23.00	6.20	25.00
31: Colo	2w	98.00	100.00	4.50		40.00	8.50	
33: Zook	2w	85.00	83.00	4.00		36.00	8.00	
35: Booker	3 w	60.00	60.00	2.70		25.00	 5.50	28.00
36: Bremer	2w	96.00	83.00	4.00		36.00	8.00	42.00
37: Moniteau	3 w	84.00	72.00	4.20	4.00	31.00	 5.50	35.00
38: Wiota	 1	110.00	98.00	4.60	9.60	42.00	 7.80	46.00

Map symbol and soil name	 Land capability	Corn	Grain sorghum	 Grass-legume hay	Smooth bromegrass	Soybeans	 Tall fescue 	 Winter wheat
		Bu	Bu	Tons	AUM	Bu	AUM	Bu
39:								
Nodaway	2 w	80.00	70.00	3.70	7.40	30.00	7.00	
41C2: Armster	 3e	58.00	55.00	2.70	5.20	25.00	5.40	28.00
41D2: Armster	 4e	50.00	45.00	2.30	4.60	22.00	 5.20	 25.00
42C3: Armster	 4e	52.00	50.00	2.50	4.20	18.00	 5.00	22.00
42E3: Armster	 6e			2.40	4.00		4.80	
54C2: Knox	 3e	89.00	80.00	3.70	8.00	33.00	6.60	34.00
54E2: Knox	 4e			2.80	6.50		5.80	
54F: Knox	 6e				6.00		 5.80	
55D3: Knox	 4e	65.00		3.00	6.40	24.00	6.00	 26.00
56B: Grundy	 	98.00	85.00	4.40	8.80	38.00	7.50	40.00

Map symbol and soil name	 Land capability	Corn	Grain sorghum	 Grass-legume hay	 Smooth bromegrass	Soybeans	 Tall fescue 	 Winter wheat
·		Bu	Bu	Tons	AUM	Bu	AUM	Bu
57C2:			 				 	
Grundy	3e	80.00	68.00	3.60	7.20	30.00	6.00	34.00
61C:							ļ	ļ
Knox	3e	 	 					
Urban Land								
61D:								
Knox	3e	 	 					
Urban Land		 						
61E: Knox	 4e	 	 		 		 	
Urban Land		 						
68C: Urban Land	 	 	 				 	
69A: Urban Land		 	 		 		 	
70B: Sharpsburg	 2e	 	 		 		 	
Urban Land		 	 		 		 	

Map symbol and soil name	Land capability	Corn	Grain sorghum	 Grass-legume hay	Smooth bromegrass	 Soybeans 	 Tall fescue 	 Winter wheat
		Bu	Bu	Tons	AUM	Bu	AUM	Bu
70C: Sharpsburg	3e	 	 	 		 	 	
Urban Land								
70D: Sharpsburg	3e	 	 	 		 	 	
Urban Land		 	 	 		 		
71: Aholt	3 w	60.00	60.00	2.70		25.00	5.50	 78.00
72: Dockery	2w	 100.00 	 85.00 	4.40	7.40	 37.00	6.80	42.00
73: Leta	2w	 88.00 	75.00	3.80	7.40	32.00	7.00	35.00
74: Levasy	3 w	 78.00 	 65.00 	 3.50 		30.00	 6.00	30.00
75: Norborne	1	108.00	94.00	4.80	9.60	41.00	 7.80	45.00
78: Myrick	5w		 	 		 		
80: Landes	3s	 69.00 	 65.00 	2.60	4.60	 24.00 	 5.40 	32.00

Map symbol and soil name	Land capability	Corn	 Grain sorghum	 Grass-legume hay	Smooth bromegrass	Soybeans	Tall fescue	 Winter wheat
		Bu	 Bu	Tons	AUM	Bu	- AUM	Bu
81: Waldron	2w	 80.00	 68.00	3.60	7.00	30.00	8.00	33.00
82: Parkville	2w	 96.00	 88.00 	4.00	7.60	38.00	8.00	42.00
83: Haynie	2w	96.00	 88.00 	3.60	8.60	36.00	7.40	40.00
87: Modale	1	92.00	 85.00 	3.90	8.00	35.00	7.20	 35.00
88: Gilliam	2w	115.00	108.00	4.50	10.00	45.00	8.50	 45.00
89: Sarpy	4s		 	0.90	1.80		2.50	 15.00
90: Wabash	3 w	65.00	65.00	3.20		32.00	5.80	30.00
92: Cotter	1	110.00	96.00	4.60	9.60	45.00	8.20	45.00
AED:								
M-W: Water W:		 	 					
w: Water		 	 					